SMF	Introduction and Process Overview
SMF	LUFT manual define scope/introduction - LUSTs, Home Heat Oil
	200.00, 000.00
LAX	How to use the LUFT Manual in conjunction with what other guidelines reference
OAK	Audience = all stakeholders
OAK	Endorsement meatball
SMF	Stakeholder creation for UNIFORM (statewide) application of manual
LAX	History section, Explaining the story about how/why tank regs were developed
SMF	List of applicable state policies simplified
SMF	Applicable regulations including St. Bd. Res. No. 92-49
SMF	Regulatory framework
OAK	Regulations and policy affecting process
SNA	Laws, Regulations, Policy Guidelines defined
SMF	Multi-tiered approach to: characterization, risk assessment, remediation, and closure
SMF	Provide a section on process-flow diagram how to use LUFT manual
LAX	General flowchart from asst – remed – closure
LAX	Flowcharts Deadman to no further action peods to be provided in Chapter 1
OAK	Roadmap to no further action needs to be provided in Chapter 1 Communication and cooperation process between Reg, RPs and Consults upfront to
SMF	define steps
SMF	Communication and cooperation between Reg, RP, Consult, and Fund
OAK	Develop communication - processes, frequency, face-to-face/electronically
OAK	Community participation
SMF	Science behind SCLs or WOQs
SIVIE	Basic science and what you need to know (refer to peer reviewed reference
OAK	documents)
OAK	CHHSL and PRG screening level's role; relationship between existing tools and the
SNA	LUFT manual (purpose of the LUFT Manual)
0.0,	How existing tools for screening (i.e. CHHSL and PRGs, soil gas procedures) fit into
SNA	the process of cleaning up and assessing a leaking UST
SMF	Fiscal responsibility
SMF	Green technology and procedures - intro
SNA	Sustainability
SMF	DEFINITIONS
SMF	Roles and responsibilities
LAX	How to choose a consultant
LAX	RP responsibilities
LAX	Regulator responsibilities
LAX	Regulatory Responsibilities
LAX	Regulatory oversight authority
LAX	Don't skip or skim over soil only cases
	Agency process for redevelopment of either closed or open cases (i.e.
LAX	residential/mixed use)
LAX	UST cleanup fund
LAX	Public participation
LAX	RP –Regulator relations (subset of regulatory responsibilities)

LAX	New case gets initial meeting between RP, consultant and regulator to determine direction, timing, funding issues, etc.
LAX	Required periodic case review meetings: initial, annual, biannual
LAX LAX LAX LAX SMF SMF SMF	Include guidance on communication i.e. when to consider additional talks between RP, agency, stakeholders to keep project moving/on track. Examples are: Changes in land use/bldg footprint; New release, added RP atop old RP's active case; Technically complex project; and Major milestones (tech selection, delineation completion, etc.). Communication w/Regulator should be regular and routine Identify relationships Communication between RP, regulator and State Fund Dispute Resolution Resolving Disputes Expedited enforcement
CNIA	Standards of Practices
SNA SNA	Include requirement for PG/PE licenses in manual Business and Professinal (7800 et seq.) Code/ Licensing Requirements (Title 16, Div. 29, Section 3065)
SNA SNA	For RPs - follow guidance in business or professions code when selecting a consultant Remedy(ies) - Regulator misconduct (an avenue to correct abuse)
SMF	Conceptual Site Models
SMF SMF	Conceptual Site Models Development and validation of SCM
SMF SMF	Development and validation of SCM Site conceptual models
SMF SMF LAX	Development and validation of SCM Site conceptual models How to create a conceptual model
SMF SMF LAX OAK	Development and validation of SCM Site conceptual models How to create a conceptual model Importance of and how to prepare a CSM (example of acceptable model)
SMF SMF LAX OAK OAK	Development and validation of SCM Site conceptual models How to create a conceptual model Importance of and how to prepare a CSM (example of acceptable model) Robust CSM
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SMF SMF LAX OAK OAK OAK SNA SMF OAK	Development and validation of SCM Site conceptual models How to create a conceptual model Importance of and how to prepare a CSM (example of acceptable model) Robust CSM Prepare flow chart for CSM development Developing a robust site conceptual model Initial SCM with initial dynamic workplan for investigation Fate & transport Beneficial use of groundwater
SMF SMF LAX OAK OAK SNA SMF OAK OAK LAX	Development and validation of SCM Site conceptual models How to create a conceptual model Importance of and how to prepare a CSM (example of acceptable model) Robust CSM Prepare flow chart for CSM development Developing a robust site conceptual model Initial SCM with initial dynamic workplan for investigation Fate & transport Beneficial use of groundwater Performing accurate sensitive receptor surveys early in process of assessment
SMF SMF LAX OAK OAK SNA SMF OAK OAK LAX	Development and validation of SCM Site conceptual models How to create a conceptual model Importance of and how to prepare a CSM (example of acceptable model) Robust CSM Prepare flow chart for CSM development Developing a robust site conceptual model Initial SCM with initial dynamic workplan for investigation Fate & transport Beneficial use of groundwater Performing accurate sensitive receptor surveys early in process of assessment Identifying nearby sensitive receptors
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SMF SMF LAX OAK OAK SMF OAK LAX LAX LAX	Development and validation of SCM Site conceptual models How to create a conceptual model Importance of and how to prepare a CSM (example of acceptable model) Robust CSM Prepare flow chart for CSM development Developing a robust site conceptual model Initial SCM with initial dynamic workplan for investigation Fate & transport Beneficial use of groundwater Performing accurate sensitive receptor surveys early in process of assessment Identifying nearby sensitive receptors Preliminary investigation defines whether remediation needs to be done or not Decision making using the SCM (hypothesis, developing evidence, justification for remedy, closure or more investigation) Complete CSM - site assessment, risk assessment, identify data gaps, propose recommendations
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SMF SMF LAX OAK OAK SMF OAK LAX LAX LAX	Development and validation of SCM Site conceptual models How to create a conceptual model Importance of and how to prepare a CSM (example of acceptable model) Robust CSM Prepare flow chart for CSM development Developing a robust site conceptual model Initial SCM with initial dynamic workplan for investigation Fate & transport Beneficial use of groundwater Performing accurate sensitive receptor surveys early in process of assessment Identifying nearby sensitive receptors Preliminary investigation defines whether remediation needs to be done or not Decision making using the SCM (hypothesis, developing evidence, justification for remedy, closure or more investigation) Complete CSM - site assessment, risk assessment, identify data gaps, propose recommendations
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SMF SMF LAX OAK OAK SNA SMF OAK LAX LAX LAX LAX	Development and validation of SCM Site conceptual models How to create a conceptual model Importance of and how to prepare a CSM (example of acceptable model) Robust CSM Prepare flow chart for CSM development Developing a robust site conceptual model Initial SCM with initial dynamic workplan for investigation Fate & transport Beneficial use of groundwater Performing accurate sensitive receptor surveys early in process of assessment Identifying nearby sensitive receptors Preliminary investigation defines whether remediation needs to be done or not Decision making using the SCM (hypothesis, developing evidence, justification for remedy, closure or more investigation) Complete CSM - site assessment, risk assessment, identify data gaps, propose recommendations CSM with a risk-based assessment component CSM must be developed prior to corrective action

OAK OAK	Workplan Workplan objectives and rationale
OAK OAK OAK	Present rationale for proposed scope of work Workplan development guidelines Process for developing an adaptive workplan
SMF	Data quality objectives Use of Data Quality Objectives to assure representative and statistically significant
LAX OAK	data collection Data quality objectives clearly stated
SMF	Dynamic WP for investigations The comprehensive workplan - as compared to an iterative wkp, description of
OAK	assessment goals/objectives, description of decision tree/flow chart, timeline and interim reporting (progress reporting format)
SMF	Site Assessment
SMF SMF SMF	Defining assessment objectives Definition elements of each phase of project ID data gaps during investigation
LAX LAX	How to determine if your site is adequately characterized Recommended characterization requirements
OAK	Site assessment process Standardize guidelines for robust SCMs, site assessment, RBCA that we can use
SNA SNA	across the board for consultants, RPs and regulators Good guidance for site characterization and risk assessment
SMF SMF	Soil, vapor and groundwater sampling techniques Maximize data collection for investigation
SMF	Sampling frequency and analytes Site assessment + include best/worst scenarios for their use (i.e. major do's and
LAX LAX	don'ts that distill best practices and learning) Strategies for investigating a new LUST site without harming the environment
OAK	Rationale for selection of assessment tools/methods Triad should be incorporated into process Soil, groundwater, veper
OAK SNA	Soil, groundwater, vapor Describe all available methodologies for assessment and applicable situations for use
SNA SNA	Advantages and limitations of assessment technologies Rapid characterization approaches
SMF LAX	Sensitive receptor surveys Permits need to be considered during site assessment and cleanup phases
SMF	Investigation and remediation soils only cases Subsurface Geologic considerations when advancing borings and screening wells –
LAX LAX	Don't go through aquitards What do you do, if substrate is all boulders? Thus you cannot drill
OAK	Need for adequate site assessment and continuous cores should be mandatory Characterization of site stratigraphy to identify soil and groundwater sampling
OAK OAK	intervals When can you use direct push technology?
OAK OAK	CPT vs. continuous core for vertical delineation Transects for horizontal and vertical characterization
OAK	Initial evaluation of groundwater vs. continuous evaluation

OAK When to use grab groundwater & MW networks LAX SIAS sampling (techniques for procedures) Well design for different uses NA Well design for different uses GY sample collection: turbidity reduction, wells with sheen GW sample collection: turbidity reduction, wells with sheen GW beyth-Discrete sampling. GW sampling methods When do you good good sampling When do you need to assessment of Vapor Intrusion pathways Soll gas surveys OAK When do you need to assess the soil vapor pathway by specific sampling methods? When are soil gas studies required? address SV/VI in manual Mass flux evaluation guidance SMF Contrernt soil mass and plume delineation LAX Estimating mass in soil and GW Waste Disposal SMF Physical and chemical properties of fuel and methods to determine them Required chemical analyses (including methods, cleanups, and issues re: turbidity in groundwater samples) LAX Analytical requirements LAX Analytical requirements of fuel and methods to determine them Required chemical analyses (including methods, cleanups, and issues re: turbidity in groundwater samples) LAX Analytical requirements of fuel and methods to determine them Required chemical analyses (including methods, cleanups, and issues re: turbidity in groundwater samples) LAX Analytical requirements for soil/groundwater/vapor MAF Method detection limits LAX Reference to current EPA methods SIAN SIANDAR Analytical Methods To recomplied for oils, VOC, SVOCs, metals, etc.); Diesel fuel tank - 8015 (CCID or modified for diesel/fuel), VOCs, SVOCs/PAHs, etc., etc. SIAN Cast tank - 8015 (CCID or modified for gas), VOCs, metals, etc. SIAN Testing for ethanol and methanol Fuel oxygenates - MTBE, TBA- ethanol a concern? Upcoming/emerging alternative fuels Fuel oxygenates - MTB		
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LAX Well design standards Well design for different uses Well design for different uses Well development Groundwater monitoring program Groundwater sampling Groundwater sampling Groundwater sampling Groundwater sampling Groundwater sampling Groundwater sampling and protocol for vapor sampling OAK When do you need to assess the soil vapor pathway by specific sampling methods? When are soil gas studies required? address SV/VI in manual Mass flux evaluation guidance Groundwater sampling Groundwater sampling Mass in soil and GW Waste Disposal Mass flux evaluation guidance Groundwater samples) Laboratory Analytical Data Physical and chemical properties of fuel and methods to determine them Required chemical analyses (including methods, cleanups, and issues re: turbidity in groundwater samples) LAX Analytical requirements LAX Analytical requirements CAX Analytical requirements for soil/groundwater/vapor Analytical requirements LAX Analytical requirements LAX CANALY (CANALY)	LAX	Soil sampling (techniques for procedures)
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	LAX	KISK ASSESSMENT and Wanagement

SMF	Risk assessment: HHRA - What's included? Who can write one? Who can review one?
SMF	HHRA: Should be tailored to match threat level of site.
SMF	Human and ecological risk assessment
LAX	Health risk assessment
	Risk Assessment Definition Consistency Tiers
SNA	(Human health, geological, GW)
SNA	Health risk assessment
SMF	Risk assessment should be done @ - PAR, -CAP, -Closure
	Sites near existing wells must have monitoring for leakage (to allow for appropriate
LAX	responses)
LAX	Don't skip over soil-only cases
LAX	Increase near existing wells
OAK	Use of risk assessment is inconsistent
	Define methodology for prioritizing sites. Based on the priority develop RA and
SNA	closure criteria
SNA	Consistency in evaluation of site threat
SMF	Mass flux evaluation for protection of water quality
LAX	COC mass flux considerations
LAX	Plume stability evaluation
SNA	Fate and Transport
SMF	Lawrence Livermore UST report and conclusions
LAX	Modeling tools
	Risk assessment: Max. concentration does not equal threat; @CCAP> Buy-in to site
SMF	closure criteria, integrate land use planning
SMF	Risk-related exit criteria
LAX	Risk-based site closures
LAX	Risk-based cleanup levels
LAX	Degree of cleanup (amount and speed)
OAK	Low risk criteria
OAK	Defined LRC criteria
0,	Site-specific Risk-Based closure goals
SNA	Potential tiered approaches based on risk
SMF	Using institutional controls
LAX	Risk management
OAK	Post NFA risk-management - property redevelopment issues
LAX	Vapor intrusion (Johnson and Ettinger)
LAX	Modeling for assessing vapor intrusion
LAX	Vapor intrusion guidance
SMF	Risk assessment info should be conveyed to the public
SNA	Contact list of specialized regulators who can review risk assessments/RBCA
	Contact list of specialized regulators who can review risk assessments/NBO/N
OAK	Corrective Action Planning
	Break CAP process up into more efficient pieces. For example, 1) demonstrate
	cleanup needed & where, 2) screen remedial technologies applicable to cleanup
	where needed, 3) test feasibility of more promising technologies, 4) prepare CAP, and
OAK	5) prepare RAP.
OAK	CAP needs to have costs included
OAK	Community perception needs to be incorporated into CAP - public participation
<i>_,</i> \	participation

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LAX	Remediation performance optimization
LAX	How to perform an SVE pilot test
SNA	Data reporting during interim remedial actions (USEPA guidelines)
	The specific grant of the specific grant of
SMF	Evolving technologies vetting process: regulators, RPs, consultants, Cleanup fund
SMF	Evolving technologies: standardized acceptance criteria for new technologies to meet
SMF	Evolving technology evaluation
	During technology selection, balancing cleanup goals w/Greenhouse Gas (GHG)
LAX	emissions/carbon footprint generated (refer to GHG calc std docs)
LAX	Sustainable remediation considerations – i.e. Carbon Footprint, GHG generation
SNA	Calculating Carbon Footprint for remediation technology
	, and the second
OAK	Reporting Requirements
	Report content and requirements for landmark reports such as RAPs CAPs etc. similar
SMF	to TriRegional Board guidelines
OAK	Report contents
SNA	Closure report template/ consistent format
SMF	Consistent reporting
OAK	Sample report
OAK	Guidelines for cross-sections
OAK	Professionals must show responsibility for work completed
SMF	GeoTracker: minimum fields to be populated and by whom
SNA	Steps for utilizing Geotracker
SNA	Geotracker access options (i.e. reports)
SNA	Recommend Geotracker naming scheme for uploads
LAX	Case Closure Considerations
SMF	Site closure
OAK	Site closure methodology
OAK	Road map to closure
SMF	Agency by agency cleanup criteria
SMF	Criteria (or factors to be considered or guidelines) required for closure
SMF	How to determine if a site meets water quality objectives
LAX	Cleanup standard
LAX	Setting risk-based closure goals at low risk sites
LAX	Cleanup goals and/or levels
LAX	Determining appropriate cleanup goal – "How clean is clean"?
LAX	Standard soil clean-up guidelines
	Station of Soil Clean-on Onioenites
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LAX LAX	Specific Cleanup goals
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LAX	Estimating residual contamination in soil and groundwater
SNA	Confirmatory sampling @ cessation of remediation
LAX	Institutional controls
LAX	USER-friendly state-wide deed restriction database used by all agencies
LAX	Use of land use restrictions in setting up-front clean up levels
OAK	What conditions could allow engineering controls
OAK	Institutional controls
SNA	Use of engineered controls or deed restrictions to advance closure
SMF	Site closure example
OAK	Post NFA risk-management - property redevelopment issues
SNA	Dormant site status
SMF	Closure appeal process
SNA	Petition process
0.47	Totalen process
LAX	UST Cleanup Fund
SMF	Fund guidance topic/overview
LAX	-
	Fund pre-approval
SMF	Yearly project scope approval and cost pre-approval
	Only cost-effective remedial activities to be reimbursed (i.e., cutoff of SVE activities
LAX	when removal diminishes)
SMF	Standardized invoice format
SMF	Consistent reporting format
SMF	Net Environmental impact of the process (AB32) - Green Chapter
SMF	Green technology and procedures
SNA	References and Resources
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